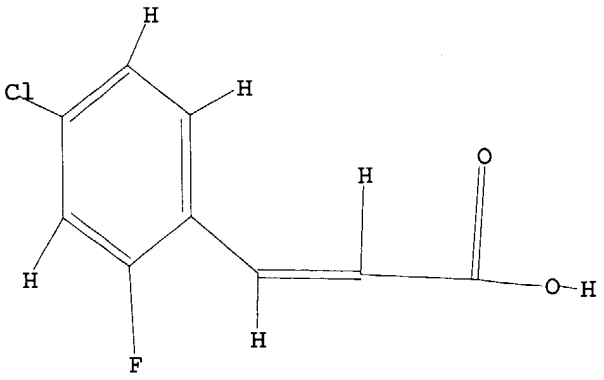
L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 09:27:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1142 TO ITERATE

100.0% PROCESSED 1142 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L2 2 SEA SSS FUL L1

L3 5 L2

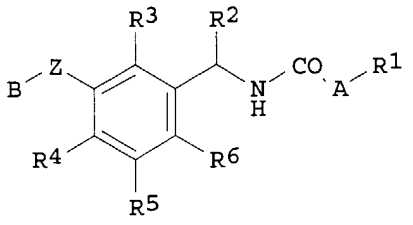
=> d 1-5 ibib abs hitstr

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:433768 CAPLUS
TITLE: Preparation of amides, which contain pyridinyl, pyrimidinyl and pyrazinyl moieties, as potassium channel openers
INVENTOR(S): Wu, Yong-Jin; Sun, Li-Qiang; Chen, Jie; He, Huan
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 32 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004102449	A1	20040527	US 2003-719538	20031121
WO 2004047739	A2	20040610	WO 2003-US37306	20031121

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,
NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ,
BY, KG, KZ, MD
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.: US 2002-428352P P 20021122
GI



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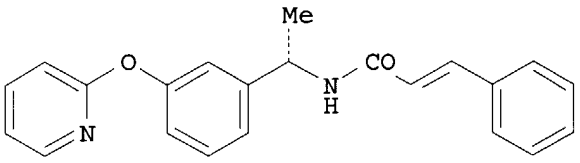


II

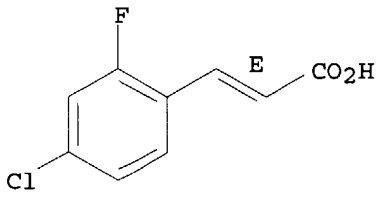
AB Amides, such as I [R1 = unsubstituted- or substituted-Ph, pyridinyl, 3-quinolinyl, cycloalkyl, thienyl, furanyl; R2 = CF3, CH2OH, alkyl; R3, R4, R5, R6 = H, F; A = -CH:CH-, -(CH2)n-; B = pyridinyl, pyrimidinyl, pyrazinyl, benzyl; Z = O, CH2, -(CH2)mN(R7)-; R7 = H, alkyl; n = 0, 1, 2, 3; m = 0, 1], were prepared for therapeutic use as openers or activators of KCNQ potassium channels and were claimed for use in the treatment of migraine or a migraine attack, bipolar disorders, epilepsy, acute and chronic pain and anxiety. Thus, amide II was prepared via an amidation reaction of cinnamic acid with (S)-1-[3-(pyridin-2-yloxy)phenyl]ethylamine using EDAC.HCl and DMAP in CH2Cl2. The prepared amides were assayed for K+ channel activity using a KCNO patch-clamp method.

IT **312693-55-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of pyridinyl, pyrimidinyl and pyrazinyl amides for use in pharmaceutical compns. as potassium channel openers)

RN 312693-55-3 CAPLUS

CN 2-Propenoic acid, 3-(4-chloro-2-fluorophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:256222 CAPLUS
DOCUMENT NUMBER: 136:294651
TITLE: Preparation of aryl-substituted N-hydroxy amides with amide linkages as HDAC inhibitors for treatment of proliferative conditions

INVENTOR(S): Watkins, Clare J.; Romero-Martin, Maria-Rosario; Moore, Kathryn G.; Ritchie, James; Finn, Paul W.; Kalvinsh, Ivars; Loza, Einars; Starchenkov, Igor; Dikovska, Klara; Bokaldere, Rasma Melita; Gailite, Vija; Vorona, Maxim; Andrianov, Victor; Lolya, Daina; Semenikhina, Valentina; Amolins, Andris; Harris, C. John; Duffy, James E. S.

PATENT ASSIGNEE(S): Prolifix Limited, UK

SOURCE: PCT Int. Appl., 346 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002026696	A1	20020404	WO 2001-GB4329	20010927
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001090134	A5	20020408	AU 2001-90134	20010927
EP 1335898	A1	20030820	EP 2001-970014	20010927
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004509941	T2	20040402	JP 2002-531082	20010927
US 2004092598	A1	20040513	US 2003-381791	20030827

PRIORITY APPLN. INFO.:

GB 2000-23985	A	20000929
US 2001-297785P	P	20010614
WO 2001-GB4329	W	20010927

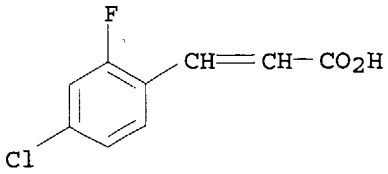
OTHER SOURCE(S): MARPAT 136:294651

AB The title compds. AQ1JQ2CONHOH [I; wherein A = aryl group; Q1 = aryl leader group having a backbone of at least 2 C atoms; J = NR1CO or CONR1; R1 = amido substituent; Q2 = acid leader group; and pharmaceutically acceptable salts, solvates, amides, esters, ethers, chemical protected forms, and prodrugs thereof] were prepared via solution phase and solid phase synthetic methods as histone deacetylase (HDAC) inhibitors for treatment of proliferative conditions, such as cancer and psoriasis. For example, 6-aminocaproic acid Me ester•HCl was coupled with 2-naphthoyl chloride in the presence of diisopropyl ethylamine in DMF to give the amide. Deesterification (79%), followed by conversion to the N-hydroxyamide using HONH2•HCl in the presence of 1,1'-carbonyldiimidazole in THF, afforded naphthalene-2-carboxylic acid (5-hydroxycarbamoylpentyl)amide II (PX105687) in 40% yield. The latter inhibited recombinant HDAC1 and HDAC2 with IC50 values of 33 nM and 29 nM, resp., and inhibited cell proliferation against the human cervical adenocarcinoma (HeLa) cell line using cell proliferation reagent WST-1 with IC50 of 1.1 nM. Structure-activity relationship studies showed superior activity for I when (1) the backbone of Q1 had > 1 carbon atoms, and (2) the alkylene group Q2 had > 5 carbon atoms.

IT **202982-65-8**, 3-(4-Chloro-2-fluorophenyl)acrylic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; preparation of N-hydroxy amides with amide linkages as HDAC inhibitors for treatment of proliferative conditions)

RN 202982-65-8 CAPLUS

CN 2-Propenoic acid, 3-(4-chloro-2-fluorophenyl)- (9CI) (CA INDEX NAME)



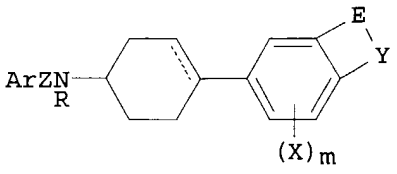
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:886087 CAPLUS
DOCUMENT NUMBER: 136:20063
TITLE: Preparation of aminocyclohexylbenzazolones as NMDA receptor antagonists.
INVENTOR(S): Nikam, Sham Shridhar; Scott, Ian Leslie; Sherer, Brian Alan; Wise, Lawrence David
PATENT ASSIGNEE(S): Warner-Lambert Company, USA
SOURCE: PCT Int. Appl., 156 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001092239	A1	20011206	WO 2001-US14763	20010508
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1286975	A1	20030305	EP 2001-933173	20010508
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001011301	A	20030610	BR 2001-11301	20010508
JP 2003535083	T2	20031125	JP 2002-500853	20010508
US 2003236252	A1	20031225	US 2002-276054	20021112
NO 2002005762	A	20030109	NO 2002-5762	20021129
BG 107375	A	20030930	BG 2002-107375	20021211

PRIORITY APPLN. INFO.: US 2000-208241P P 20000531
WO 2001-US14763 W 20010508

OTHER SOURCE(S): MARPAT 136:20063
GI



I

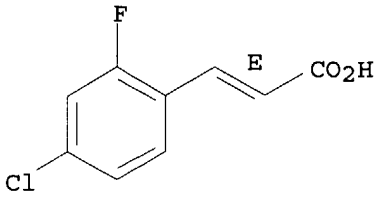
AB Title compds. [I; Ar = (substituted) aryl, heteroaryl; Z = (CR1R2)n, O2C, OSO2, etc.; n = 1-6; R = H, alkyl, COR6, CO2R6, CONHR6, aralkyl, hydroxyalkyl, aminoalkyl, etc.; R6 = alkyl, aralkyl; X = H, electron withdrawing group; m = 0-2; EY = CH:CHNH, CH2CH2NH, O2CNH, SCONH, N:NNH, CH:CHNH, N:CHNH, etc.; dotted line = optional double bond], were prepared Thus, a mixture of 6-(4-oxocyclohexyl)benzoxazolin-2-one (preparation given), Ph(CH2)3NH2, and 3A mol. sieves were stirred 4 h in Me2CHOH; NaBH4 was added followed by stirring overnight to give 42% 6-[trans-4-(3-

phenylpropylamino)cyclohexyl]-3H-benzoxazol-2-one (II). II inhibited NR1A/NR2B receptors in oocytes with IC50 = 0.03 μM. A II drug formulation is given.

IT **312693-55-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aminocyclohexylbenzazolones as NMDA receptor antagonists)

RN 312693-55-3 CAPLUS
CN 2-Propenoic acid, 3-(4-chloro-2-fluorophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:564786 CAPLUS
DOCUMENT NUMBER: 135:132416
TITLE: Preparation of isoxazoline derivatives as anthelmintics and nematocides
INVENTOR(S): Chalquest, Richard R.
PATENT ASSIGNEE(S): Akkadix Corporation, USA
SOURCE: PCT Int. Appl., 183 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001054505	A1	20010802	WO 2001-US2843	20010129
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2001049373	A1	20011206	US 2001-770121	20010126
US 2002002171	A1	20020103	US 2001-771067	20010126
US 2002016330	A1	20020207	US 2001-772262	20010129

PRIORITY APPLN. INFO.: US 2000-179005P P 20000128
OTHER SOURCE(S): MARPAT 135:132416
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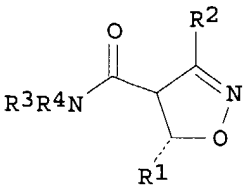


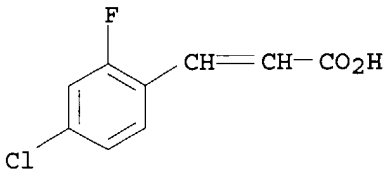
I

AB The isoxazoline derivs. I [R1 = (un)substituted aryl, arylacetal, alkyl,

etc.; R2 = alkyl, arylalkyl, haloalkyl, haloaryl; R3 = aryl, alkoxyaryl, alkyl, pyrrolylalkyl, pyrrolidonylalkyl, etc.; R4 = H or alkyl; R3R4 = (un)substituted heterocyclyl] are prepared as anthelmintics and nonphytotoxic nematocides. I can be used in conjunction with other nematocides, such as free fatty acids, fatty acid salts, avermectins, ivermectin, and milbemycin. I also kills nematodes eggs.

IT **202982-65-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant in preparation of isoxazoline derivative anthelmintics and nematocides)

RN 202982-65-8 CAPLUS
CN 2-Propenoic acid, 3-(4-chloro-2-fluorophenyl)- (9CI) (CA INDEX NAME)



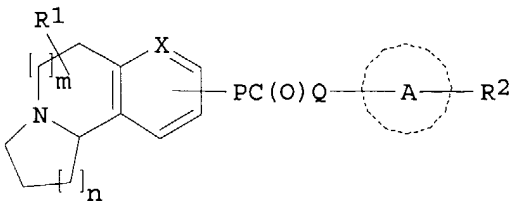
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:117051 CAPLUS
DOCUMENT NUMBER: 132:151693
TITLE: Preparation of condensed tricyclic piperidines having anti-convulsant activity
INVENTOR(S): Novelli, Riccardo; Porter, Roderick Alan
PATENT ASSIGNEE(S): Smithkline Beecham Plc, UK
SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000008023	A1	20000217	WO 1999-EP5586	19990803

W: CA, JP, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: GB 1998-16986 19980805
OTHER SOURCE(S): MARPAT 132:151693
GI



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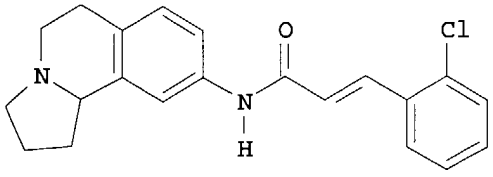


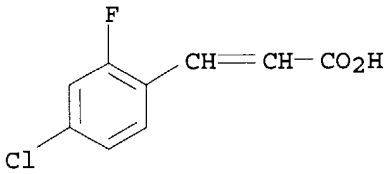
II

AB The title compds. [I; X = CH, N; P = CH:CH and Q = NR6; or P = CH:CH and Q = NR6CH2; or P = NH and Q = CR3:CH; R6 = H, phenylalkyl, alkyl; R3 = H, halo, phenylalkyl, alkyl; A = a monocyclic aromatic carbocyclic or heterocyclic compound or a bicyclic carbocyclic or heterocyclic compound in which one ring is aromatic; m = 1-2; n = 1-2; R1 = H, F, alkyl; R2 = H, halo, NO2, etc.; or two R2 groups are linked together to form a carbocyclic or heterocyclic ring that is (un)saturated and (un)substituted by OH or O; R3 and R2 are linked together form a (un)saturated carbocyclic or heterocyclic ring], useful in the treatment and prophylaxis of epilepsy, migraine, and other disorders, were prepared Thus, treatment of (±)-1,2,3,5,6,10b-hexahydropyrrolo[2,1-a]isoquinolin-9-amine (preparation given) with 2-chlorocinnamic acid in the presence of N-hydroxybenzotriazole and ethyldimethylaminopropyl carbodiimide.HCl in DMF afforded II which showed a statistically significant increase in seizure threshold of 432 at 2 mg/kg p.o. in rat (MEST).

IT **202982-65-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of condensed tricyclic piperidines having anti-convulsant activity)

RN 202982-65-8 CAPLUS

CN 2-Propenoic acid, 3-(4-chloro-2-fluorophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT